

**CHRIST THE KING BOYS MATRIC HR. SEC. SCHOOL,
KUMBAKONAM – 612 001.**

STD: XII

MARKS: 70

SUB: COMPUTER SCIENCE

TIME: 2.30 MINS

HALF – YEARLY MODEL QUESTION PAPER – 6

PART – I

I. CHOOSE THE CORRECT ANSWER:

15*1=15

1. Which of the following is a distinct syntactic block?
a) Subroutines b) Function c) Definition d) Modules
2. The members that are accessible from within the class and are also available to its sub-classes is called _____.
a) Public members b) Protected members c) Secured members d) Private members
3. A sequence of immutable objects is called _____.
a) Built in b) List c) Tuple d) Derived data
4. Who developed Python?
a) Ritche b) Guido Van Rossum c) Bill Gates d) Sunder Pitchai
5. If a problem can be broken into sub problems which are reused several times, the problem possesses which property?
a) Overlapping sub problems b) Optimal substructure c) Memoization d) Greedy
6. Which is the most comfortable loop?
a) do..while b) while c) for d) if..elif
7. Which of the following keyword is used to begin the function block?
a) define b) for c) finally d) def
8. Which of the following is the slicing operator?
a) { } b) [] c) <> d) ()
9. Let setA={3,6,9} setB={1,3,9}. What will be the result of the following snippet?
print(setA|setB)
a) {3,6,9,1,3,9} b) {3,9} c) {1} d) {1,3,6,9}
10. Which of the following method is automatically executed when an object is created?
a) __object__() b) __del__() c) __func__() d) __init__()
11. Relational database model was first proposed by _____.
a) E F Codd b) E E Codd c) E F Cadd d) E F Codder
12. Which command lets to change the structure of the table?
a) SELECT b) ORDER BY c) MODIFY d) ALTER

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13. Which of the following is a string used to terminate lines produced by writer() method of csv module?
a) Line Terminator b) Enter key c) Form feed d) Data Terminator
14. getopt() will return an empty array if there is no error in splitting strings to _____
a) argv variable b) opt variable c) args variable d) ifile variable
15. Which of the following is called the master table?
a) sqlite_master b) sql_master c) main_master d) master_main

PART – II

II. ANSWER ANY 6 QUESTIONS: (Q.No 19 Compulsory)

6*2=12

16. What is the difference between Interface and Implementation?
17. Which strategy is used for program designing? Define that strategy?
18. Write the Syntax with example for Simple – If?
19. What is meant by Parameters and Arguments?
20. Define List Comprehension
21. What are the Advantages of DBMS?
22. What is the difference between the write mode and append mode?
23. Define Normalization
24. What is the difference between Scripting and Programming Languages?

PART – III

III ANSWER ANY 6 QUESTIONS: (Q.No 28 Compulsory)

6*3=18

25. What is the side – effects of Impure Function?
26. What are the two components of Space Complexity?
27. What are the two types of Programming in Python?
28. Write the alternate method for If – Else?
29. Define the following Built in String Functions: a) isalnum() b) isalpha() c) isdigit()
30. Explain Cartesian Product with a suitable example?
31. Define CSV File. What are the ways to read a CSV File?
32. Write a Python Program to display the content of tuples in newline without using loops?
33. Define SQL ORDER by CLAUSE

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PART IV

IV. ANSWER THE FOLLOWING QUESTIONS:

5*5=25

34. a) What is a List? Why List can be called as Pairs. Explain with suitable example

[OR]

b) Explain the Insertion sort algorithm with example.

35 a) Explain the Following Operators with Example:

i) Arithmetic

ii) Relational

iii) Logical

iv) Conditional

[OR]

b) Write a Python code to find the L.C.M. of two numbers.

36. a) Explain the different set operations supported by python with suitable example.

[OR]

b) What are the Components of DBMS?

37. a) Write the syntax for getopt() and explain its arguments and return values

[OR]

b) Write the rules to be followed to format the data in a CSV file.

38. a) What are the components of SQL? Write the commands in each.

[OR]

b) Explain in detail the types of pyplots using Matplotlib.

// ALL THE BEST